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# DRUG DELIVERY DEVICE

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U.S. Cl. 128—798 5 Claims

1. A self-contained transdermal medication delivery system for delivering a pre-specified medication to a body location comprising

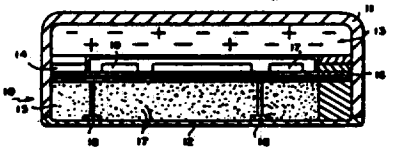
a housing containing at least

a source of electrical current pulses;

microprocessor control means for automatically providing said current pulses in accordance with a fixed, predetermined program established in said microprocessor control means prior to manufacture of said system for controlling the level of said current pulses and the time period over which said pulses are to be provided;

means for retaining said pre-specified medication, being electrically charged, for placement at a body location for forming with said body location an electrical current path responsive to said current pulses to cause said medication to be delivered transdermally from said medication retaining means to said body location;

said microprocessor means thereby permitting a predetermined dosage of said pre-specified medication to be delivered automatically at a predetermined rate to said body location in accordance with said fixed, predetermined program wherein said medication retaining means is formed separately from said housing and includes a hydrophilic membrane having molecules of a medication distributed therein, and further including



electrode means for coupling to said separately formed medication retaining means;

cable means for interconnecting said electrode means and said source of current pulses,

one or more separately formed cartridges containing medication in liquid form, each cartridge being inserted into said housing means for attachment to said cable means, said cable means including a channel for transporting said liquid medication to the membrane of said medication retaining means for distribution of said medication therein.

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